

RECEIVED

APR 18 2001

TECH CENTER 1600/2900

P#14  
1647

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/187,693

DATE: 04/10/2001

TIME: 12:27:20

Input Set : A:\C420CIP2SL.TXT  
Output Set: N:\CRF3\04102001\I187693.raw

P.S

ENTERED

4 <110> APPLICANT: Jakobovits, Aya  
 5 Yang, Xiao-Dong  
 6 Gallo, Michael  
 7 Jia, Xiao-Chi  
 9 <120> TITLE OF INVENTION: Human Monoclonal Antibodies to Epidermal  
 10 Growth Factor Receptor  
 13 <130> FILE REFERENCE: Cell 4.20 CIP2  
 15 <140> CURRENT APPLICATION NUMBER: 09/187,693  
 16 <141> CURRENT FILING DATE: 1998-11-05  
 18 <150> PRIOR APPLICATION NUMBER: 09/162,280  
 19 <151> PRIOR FILING DATE: 1998-09-29  
 21 <150> PRIOR APPLICATION NUMBER: 08/851,362  
 22 <151> PRIOR FILING DATE: 1997-05-05  
 24 <160> NUMBER OF SEQ ID NOS: 75  
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 22  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: human  
 33 <400> SEQUENCE: 1  
 34 caggtgcagc tggagcagtc gg 22  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 24  
 38 <212> TYPE: DNA  
 39 <213> ORGANISM: human  
 41 <400> SEQUENCE: 2  
 42 gctgagggag tagagtccctg agga 24  
 44 <210> SEQ ID NO: 3  
 45 <211> LENGTH: 294  
 46 <212> TYPE: DNA  
 47 <213> ORGANISM: human  
 49 <400> SEQUENCE: 3  
 50 gtctctggtg gtcctcatcaa cagtggtgat tactactgga gctggatccg ccagcaccca 60  
 51 gggaaaggcc tggactgcat tgggtacatc tattacagtg ggagcaccta ctacaacccg 120  
 52 tccctcaaga gtcgagttac catatcagta gacacgtcta agaatcagtt cttcctgaag 180  
 53 ctgacacctg tgactgcccgg gacacccggc gtgttattact gtgcgagatc tacggtgta 240  
 54 aatccggggt gttcgaccctt ctggggccar ggaaccctgg tcaccgtctc ctca 294  
 56 <210> SEQ ID NO: 4  
 57 <211> LENGTH: 264  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: human  
 61 <400> SEQUENCE: 4  
 62 accatcactt gccaggcgag tcaggacatt aacaactatt taaaattgggt tcagcagaaaa 60  
 63 ccagggaaag cccctaaggt cctgatccac gatgcatcca atttggaaac agggggccca 120  
 64 tcaaggttca gtggaaagtgg atctggaca gatttactt tcaccatcag cggcctgcag 180  
 65 cctgaagaca ttgcaacata ttattgtcaa cagttatgaaa gtctcccact cactttccgc 240  
 66 ggagggacca aggtggagat caaa 264

RAW SEQUENCE LISTING DATE: 04/10/2001  
 PATENT APPLICATION: US/09/187,693 TIME: 12:27:20

Input Set : A:\C420CIP2SL.TXT  
 Output Set: N:\CRF3\04102001\I187693.raw

68 <210> SEQ ID NO: 5  
 69 <211> LENGTH: 291  
 70 <212> TYPE: DNA  
 71 <213> ORGANISM: human  
 73 <400> SEQUENCE: 5  
 74 gtctctggtg gctccatcaa cagtggat tactactgga gctggatccg ccagcaccca 60  
 75 gggaaaggcc tggagtgat tgggtccatc tattacagtg ggaacacccctt ctacaaccccg 120  
 76 tccctcaaga gtcgagttac catatcacta gacacgtcta agaaccagtt ctccctgaag 180  
 77 ctgagttctg tgactgccgc ggacacggcc gtgtgttact gtgcgagaaa tatagtgact 240  
 78 acgggtgtt ttgatatctg gggcaaggg acaatggtca ccgtctttca 291  
 80 <210> SEQ ID NO: 6  
 81 <211> LENGTH: 264  
 82 <212> TYPE: DNA  
 83 <213> ORGANISM: human  
 85 <400> SEQUENCE: 6  
 86 accatcactt gtcaggcgag tcaggacatt accattttt taaattggta tcaacagaaaa 60  
 87 ccaggggaaag cccctaagct cctgatcaac gacgcattccaa gtttggaaac aggggtccca 120  
 88 ttaaggttca gtggaaagtgg atctggaca gattttactt tcaccatcag cagcctgcag 180  
 89 cctgaagata ttgcaacata ttactgtcaa cagtagtgc atctcccgct cactttcgcc 240  
 90 ggcgggacca aggtggcgat caaa 264  
 92 <210> SEQ ID NO: 7  
 93 <211> LENGTH: 288  
 94 <212> TYPE: DNA  
 95 <213> ORGANISM: human  
 97 <400> SEQUENCE: 7  
 98 gtctctggtg gctccatcaag cagtggat tactactgga cctggatccg ccagcaccca 60  
 99 gggaaaggcc tggagtgat tgggtacatc tattacagtg ggaacacccctt ctacaaccccg 120  
 100 tccctcaaga gtcgagtttc catgtcaata gacacgtctg agaaccagtt ctccctgaag 180  
 101 ctgagctctg tgactgccgc ggacacggcc gtgttattact gtgcgagaaa accagtgact 240  
 102 gggggggagg actactgggg ccagggaaacc ctggtcacccg tctcctca 288  
 104 <210> SEQ ID NO: 8  
 105 <211> LENGTH: 262  
 106 <212> TYPE: DNA  
 107 <213> ORGANISM: human  
 109 <400> SEQUENCE: 8  
 110 accatcactt ggcaggcgag tcaggacatt agtaactatt taaattggta tcagcagaaaa 60  
 111 ccaggggaaag ccctaagatc ctgatctacg atgcttccaa tttggaaaca ggggtcccat 120  
 112 caaggttcag tggagtgat ctggacaga ttttactttc accatcagca gcctgcagcc 180  
 113 tgaagatgtt ggaacatatg tctgtcaaca gtatgagatg ctcccgatcg gttttggcca 240  
 114 ggggacccaa ctggagatca aa 262  
 116 <210> SEQ ID NO: 9  
 117 <211> LENGTH: 291  
 118 <212> TYPE: DNA  
 119 <213> ORGANISM: human  
 121 <220> FEATURE:  
 122 <221> NAME/KEY: misc\_feature  
 123 <222> LOCATION: (1)...(291)  
 124 <223> OTHER INFORMATION: n = A,T,C or G  
 126 <400> SEQUENCE: 9

RAW SEQUENCE LISTING DATE: 04/10/2001  
 PATENT APPLICATION: US/09/187,693 TIME: 12:27:20

Input Set : A:\C420CIP2SL.TXT  
 Output Set: N:\CRF3\04102001\I187693.raw

127	gtctctggtg	gtccatcaa	cagtggat	ttctactgg	gctggatccg	ccaaacaccc	60
128	ggaaaggccc	tggagtggat	tgggtacatc	tattacagt	ggagcaccta	ctacaacccg	120
129	tccctcaaga	gtcgagttac	catgtcaata	gaccgtcta	agaaccagt	ctccctgaaa	180
W--> 130	ctgatctctg	tgactgccgc	ggacacggcc	gttttattact	gtgcgacntc	cctttactat	240
131	ggcggggta	tggacgtctg	ggcccaaggg	accacggtca	ccgtctcc	a	291
133	<210>	SEQ ID NO:	10				
134	<211>	LENGTH:	264				
135	<212>	TYPE:	DNA				
136	<213>	ORGANISM:	human				
138	<220>	FEATURE:					
139	<221>	NAME/KEY:	misc_feature				
140	<222>	LOCATION:	(1)...(264)				
141	<223>	OTHER INFORMATION:	n = A,T,C or G				
143	<400>	SEQUENCE:	10				
144	accatca	tttgcaggcgag	tcaggacatt	aacaactatt	tgaattggta	tcagcagagg	60
W--> 145	ccnnggaacg	cccctaact	cctgatctac	gatgcaccca	atttggaaac	agggtccc	120
146	tcaaggttca	gtggaaagtgg	atctgggaca	gattttactt	tcaccatcaa	cagcctgcag	180
147	cctgaagata	tttgcacata	tttattgtcaa	cactatgatc	atctccgtg	gacgttcggc	240
W--> 148	caagggacca	agggtggaa	caaa				264
150	<210>	SEQ ID NO:	11				
151	<211>	LENGTH:	291				
152	<212>	TYPE:	DNA				
153	<213>	ORGANISM:	human				
155	<400>	SEQUENCE:	11				
156	gtctctggtg	gtccatcaa	caatggat	tactactgg	gctggatccg	ccagcaccc	60
157	ggaaaggccc	tggagtggat	tggcacatc	tattacagt	ggagcaccta	ctacatccc	120
158	tccctcaaga	gtcgactac	cataatcgta	gacacgtcta	agaaccagt	ctccctgaa	180
159	ctgactctg	tgactgccgc	ggacacggcc	gtgttattact	gtgcgagagg	gacagtaact	240
160	acgtactact	ttgactactg	ggccaggga	accctggta	ccgtctcc	a	291
162	<210>	SEQ ID NO:	12				
163	<211>	LENGTH:	270				
164	<212>	TYPE:	DNA				
165	<213>	ORGANISM:	human				
167	<400>	SEQUENCE:	12				
168	accatca	tttgcaggcaag	tcagagcatt	agcagctatt	taaattggta	tcagcagaaa	60
169	ccagggaaag	cccctaagct	cctgatctat	gctgcaccca	gtttgcaaaag	tgggtccc	120
170	tcaaggttca	gtggcagtgg	atctgggaca	gatttactt	tcaccatcg	cagtctgaa	180
171	cctgaagatt	tttgcacactt	ctactgtcaa	cagggttaca	gaaccctcc	ggagtgcagt	240
172	tttggccagg	ggaccaagct	ggagatcaa				270
174	<210>	SEQ ID NO:	13				
175	<211>	LENGTH:	291				
176	<212>	TYPE:	DNA				
177	<213>	ORGANISM:	human				
179	<400>	SEQUENCE:	13				
180	gtctctggtg	gtcccgatcg	cagtggat	tactactgg	gctggatccg	gcagcccc	60
181	ggaaaggccc	tggagtggat	tggacatctc	tattacagt	ggaacaccaa	ctacaacccc	120
182	tccctcaaga	gtcgactac	cataatcatta	gacacgtcca	agaaccagt	ctccctgaa	180
183	ctgactctg	tgaccgtgc	ggacacggcc	gtgttattact	gtgcgagaga	tttttgact	240
184	gttccttct	ttgactactg	ggccaggga	accctggta	ccgtctcc	a	291

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/187,693

DATE: 04/10/2001

TIME: 12:27:20

Input Set : A:\C420CIP2SL.TXT

Output Set: N:\CRF3\04102001\I187693.raw

186 <210> SEQ ID NO: 14  
 187 <211> LENGTH: 264  
 188 <212> TYPE: DNA  
 189 <213> ORGANISM: human  
 191 <400> SEQUENCE: 14  
 192 accatcaatt gccaggcgag tcaggacata agcaactatt taaattggta tcagcagaaa 60  
 193 ccaggaaag cccctaagct cctgatcaac gatgcatccg atttggaaac aggggtccca 120  
 194 tcaaggatca gtggaaatgg atctgggaca gatnttactt tcaccatcag caacctgcag 180  
 195 cctgaagata ttgcaacata ttactgtcaa caatatgata gtctccgct cactttcggc 240  
 196 ggagggacca aggtggagat caga 264  
 198 <210> SEQ ID NO: 15  
 199 <211> LENGTH: 288  
 200 <212> TYPE: DNA  
 201 <213> ORGANISM: human  
 203 <400> SEQUENCE: 15  
 204 gtctctggtg gtcggctca cagtggat tactactgga gctggatccg gcagcccccc 60  
 205 gggaaaggac tggagtggat tgggttatac tattacagtg ggagcaccaa ttacaatccc 120  
 206 tccctcaaga gtcgactcac catatcaatt gacacgtccg agaaccagg ctccctgaag 180  
 207 ctgagttctg tgaccgctgc ggacacggcc gtgttattact gtgcgagaga ctccataactg 240  
 208 ggagctacca actactgggg ccaggaaacc ctggtcacccg tctcctca 288  
 210 <210> SEQ ID NO: 16  
 211 <211> LENGTH: 264  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: human  
 215 <220> FEATURE:  
 216 <221> NAME/KEY: misc\_feature  
 217 <222> LOCATION: (1)...(264)  
 218 <223> OTHER INFORMATION: n = A,T,C or G  
 220 <400> SEQUENCE: 16  
 W--> 221 accatcaatt gccaggcgag tcnggacatt aataactatt tanattggtn tcagcagaaa 60  
 222 ccaggaaag cccctaast cctgatctcc gatgcatccca atttagaaac aggggtccca 120  
 W--> 223 tcgaggttca gtggaaatgg atctgggaca gantntactt tcaccatcag cagcctgcag 180  
 W--> 224 cctgaagata ttgcacata tcactgtcna cagtatnata gtctccgct cactttcggc 240  
 225 ggagggacca aggttagagat caaa 264  
 227 <210> SEQ ID NO: 17  
 228 <211> LENGTH: 288  
 229 <212> TYPE: DNA  
 230 <213> ORGANISM: human  
 232 <400> SEQUENCE: 17  
 233 gtctctggtg gtcggctca cagtggat tactactgga cctggatccg gcagcccccc 60  
 234 gggaaaggac tggagtggat tggacacatc tattacagtg ggaacaccaa ttataacccc 120  
 235 tccctcaaga gtcgactcac catatcaatt gacacgtccg agactcagg ctccctgaag 180  
 236 ctgagttctg tgaccgctgc ggacacggcc atttattact gtgtgcgaga tcgagtgact 240  
 237 ggtgcttttg atatctgggg ccaaggacca atggtcacccg tctcttc 288  
 239 <210> SEQ ID NO: 18  
 240 <211> LENGTH: 264  
 241 <212> TYPE: DNA  
 242 <213> ORGANISM: human  
 244 <400> SEQUENCE: 18

RAW SEQUENCE LISTING DATE: 04/10/2001  
 PATENT APPLICATION: US/09/187,693 TIME: 12:27:21

Input Set : A:\C420CIP2SL.TXT  
 Output Set: N:\CRF3\04102001\I187693.raw

245 accatcaatt	gccaggcgag	tcaggacatc	agcaactatt	taaattggta	tcagcagaaa	60	
246 ccaggaaag	cccctaaact	cctgatctac	gatgcatcca	atttggaaac	aggggtccca	120	
247 tcaaggttca	gtggaaatgg	atctgggaca	gattttactt	tcaccatcag	cagcctgcag	180	
248 cctgaagata	ttgcaacata	tttctgtcaa	cactttgatc	atctcccgct	cgctttcgcc	240	
249 ggagggacca	aggtggagat	caaa				264	
251 <210>	SEQ ID NO:	19					
252 <211>	LENGTH:	480					
253 <212>	TYPE:	DNA					
254 <213>	ORGANISM:	human					
256 <220>	FEATURE:						
257 <221>	NAME/KEY:	misc_feature					
258 <222>	LOCATION:	(1)...(480)					
259 <223>	OTHER INFORMATION:	n = A,T,C or G					
261 <400>	SEQUENCE:	19					
W--> 262	gcgatccagc	cttttaggtc	catgccnttc	tcctgtgnag	cgtctggatt	cccccttcagt	60
W--> 263	agntntggca	tgcactgggt	ccgcaggct	ccaggcaagg	ggctggagtg	ggtggcagtt	120
	atatggat	atggaaatggaa	taataactat	gcagactccg	tgaagggccc	attcaccatc	180
	tccagagaca	attccaagaa	cacgactgtat	ctgcaaatga	acagactgag	agccgaggac	240
	acggctgtgt	attactgtgc	gagattttg	gagtggttac	cctttgacta	ctggggccag	300
W--> 267	ggaaccctgg	tcacccgtctn	ctcagactcc	accaaggggcc	catcggtctt	cnccctggcg	360
W--> 268	ccctgcttcc	aggacaccc	tenganagea	cananggcc	ctgggactgn	ctgntacaag	420
W--> 269	gactncttcc	cctcnaacnn	ggtaccntrn	tcntggaaa	ctcagngcnc	ntctnnatna	480
271 <210>	SEQ ID NO:	20					
272 <211>	LENGTH:	490					
273 <212>	TYPE:	DNA					
274 <213>	ORGANISM:	human					
276 <220>	FEATURE:						
277 <221>	NAME/KEY:	misc_feature					
278 <222>	LOCATION:	(1)...(490)					
279 <223>	OTHER INFORMATION:	n = A,T,C or G					
281 <400>	SEQUENCE:	20					
W--> 282	cggaaccttt	nggttcgcnc	cttttggagn	cagacccanc	atcaattgtc	gggcgagtca	60
	gggcattagc	aattttttag	cctggtttca	gcagaaacca	gggataagccc	ctaagtccct	120
	gatctatgt	gcatccactt	tgcaaagtgg	gttcccatca	aagttcaccg	gcagtggata	180
	tggcacat	ttcactctca	ccatcagcag	cctgcagcc	gaagactttg	caacttatta	240
	ttgtcaacaa	tataatgttt	accattcac	tttccggccct	gggaccaaag	tggatataaa	300
	acgaactgtg	gctgcacccat	ctgtcttcat	tttccggccca	tctgatgagc	aagttgaaat	360
	ctggaaactgc	ctctgttggt	tgcctgctga	ataacttcta	tcccagagag	gccaaagtac	420
W--> 289	agtggaaagg	ggataacgccc	ncnntggcg	gnntccttcc	nctncccnt	cctcncccn	480
W--> 290	ccttcnncna						490
292 <210>	SEQ ID NO:	21					
293 <211>	LENGTH:	449					
294 <212>	TYPE:	DNA					
295 <213>	ORGANISM:	human					
297 <220>	FEATURE:						
298 <221>	NAME/KEY:	misc_feature					
299 <222>	LOCATION:	(1)...(449)					
300 <223>	OTHER INFORMATION:	n = A,T,C or G					
302 <400>	SEQUENCE:	21					

FYI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/187,693

DATE: 04/10/2001

TIME: 12:27:22

Input Set : A:\C420CIP2SL.TXT

Output Set: N:\CRF3\04102001\I187693.raw

L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/187,693

DATE: 04/10/2001

TIME: 12:27:22

Input Set : A:\C420CIP2SL.TXT

Output Set: N:\CRF3\04102001\I187693.raw

L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34